66345-0036

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

PATENT

Qlivier DUPUIS et al.

GROUP: 1755

erial No.: 10/541,210

EXAMINER:

filed: June 30, 2005

CUSTOMER NO.: 25269

PHOTOSENSITIVE DISPERSION WITH) CONFIRMATION NO. 3644

ADJUSTABLE VISCOSITY FOR METAL DEPOSITION OF AN INSULATING SUBSTRATE AND USE OF SAME

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SUBMISSION OF TRANSLATION OF IPER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 November 10, 2006

Sir:

The applicant herewith submits a translation of the IPER, issued 7 October 2004.

Respectfully submitted,

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PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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Applicant's or agent's file reference 135967/SZ	FOR FURTHER ACTION	See Notificat Preliminary Ex	tion of Trar xamination Rep	nsmittal of Internat port (Form PCT/IPEA/
International application No. PCT/BE2003/000229	International filing date (<i>day)</i> 24 décembre 2003 (24	, , ,	-	day/month/year) er 2003 (03.01.2003
International Patent Classification (IPC) or nat C23C 18/30	ional classification and IPC			
Applicant	SEMIKA S.A	<u> </u>		· · · · · · · · · · · · · · · · · · ·
2. This REPORT consists of a total of _ This report is also accompanibeen amended and are the bas (see Rule 70.16 and Section 6) These annexes consist of a total	ed by ANNEXES, i.e., sheets sis for this report and/or sheet 507 of the Administrative Inst	s of the description	on, claims and/c	or drawings which have de before this Authorit
IV Lack of unity of inv V Reasoned statement citations and explan VI Certain documents of the company of the	of opinion with regard to now rention under Article 35(2) with reg lations supporting such stater	gard to novelty, in ment		_
Date of submission of the demand	Date	of completion of	f this report	
29 juillet 2004 (29.07.2				(07.10.2004)
Name and mailing address of the IPEA/EP	Auth	norized officer		
Foodimile No.	Tele	phone No.		

International application No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/BE2003/000229

I. Basis of the report		
This report has been drawn under Article 14 are referred to	on the basis of (Replacement shee in this report as "originally filed"	ets which have been furnished to the receiving Office in response to an invitation and are not annexed to the report since they do not contain amendments.):
the internationa	l application as originally filed.	
the description,	pages1 - 11	, as originally filed,
لاسكا	pages	, filed with the demand,
	pages	, filed with the letter of
	pages	, filed with the letter of
the claims,	Nos. 1 - 24	, as originally filed,
the claims,		, as amended under Article 19,
	Nos.	
	Nos	, filed with the letter of
	Nos	, filed with the letter of
the drawings,	sheets/fig	, as originally filed,
Line diawings,	sheets/fig	
	sheets/fig	, filed with the letter of
		, filed with the letter of
2. The amendments have resul		
l'	pages	_
the claims,	Nos	
the drawings,		
	-	
This report has been	established as if (some of) the a	mendments had not been made, since they have been considered the Supplemental Box (Rule 70.2(c)).
to go beyond the disc	nosure as med, as moreated in t	ino Suppression = (× 77)
4. Additional observations, if	necessary:	
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/BE 03/00229

1.	citations and explanations supporting	g such statement			
	Novelty (N)	Claims	1-24	YES	
		Claims		NO	
	Inventive step (IS)	Claims	1-24	YES	
		Claims		NO NO	
	Industrial applicability (IA)	Claims	1-24	YES	
		Claims		NO	

- 2. Citations and explanations
 - 1. Reference is made to the following document:

D1: WO 95/18879 A (Sensors and Synergy SA; Dupuis Olivier; Delvaux Mary Hélène) 13 July 1995 (1995-07-13).

2. The present application relates to a photosensitive dispersion, which has an adjustable viscosity, for depositing metal on an insulating substrate, and the use of same.

Document D1, which is considered to be the prior art closest to the subject matter of claim 1, describes (the references between parentheses apply to said document):

a polymeric resin, which has an adjustable viscosity and pH, for depositing catalytic palladium on a substrate, which resin contains a combination of a palladium salt, a complexforming agent, a polymer, a basic compound and a solvent selected from water, methanol and ethanol.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/BE 03/00229

It follows that the subject matter of claim 1 differs from this known dispersion in that it contains a pigment that confers oxidation-reduction properties under light irradiation.

By using this pigment, it is possible to produce dispersions that no longer require the use of a noble metal such as palladium but, instead, use other metals, which are more common and less expensive. The photosensitivity of said dispersions is increased to a wavelength range of 190 to 450 nm (compared with 190 and 300 nm in the prior art dispersion) and the irradiation energy required is much weaker (less than 100 mJ/cm²).

It follows that the claim 1 fulfils the requirements of PCT Article 33(2) and 33(3).

3. Claims 2-23, which are dependent on claim 1, as well as claim 24, which claims a metal-depositing method using a dispersion as per the invention, also fulfil, as such, the PCT requirements of novelty and inventive step.